



SEQUENCE LISTING

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<120> IMMUNOMODULATING DIMERS

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<140> 08/653,294
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<150> US 08/222,851
<151> 1994-04-05

<150> US 07/844,716
<151> 1992-03-02

<150> US 07/755,584
<151> 1991-09-03

<150> US 07/672,147
<151> 1991-03-19

<150> US 07/561,246
<151> 1990-07-30

<150> US 07/008,846
<151> 1987-01-30

<160> 42

<170> FastSEQ for Windows Version 4.0

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<220>
<221> VARIANT
<222> (1)...(10)
<223> Xaa at location 2 is E or V;
Xaa at location 3 is D,S or N;
Xaa at location 5 is R or G;
Xaa at location 6 is I or N;
<220>
<223> Xaa at location 7 is a hydrophobic or small amino acid
Xaa at location 8 is R or L;
Xaa at location 9 is G or R;
Xaa at location 10 is a hydrophobic or small amino acid

<400> 1
Arg Xaa Xaa Leu Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 2
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (1)...(10)
<223> Xaa at location 1 is a hydrophobic or small amino acid;
Xaa at location 2 is G or R;
Xaa at location 3 is R or L;
Xaa at location 4 is a hydrophobic or small amino acid;
<220>
<223> Xaa at location 5 is I or N;
Xaa at location 6 is R or G;
Xaa at location 8 is D,S or N;
Xaa at location 9 is E or V

<400> 2
Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa Arg
1 5 10

<210> 3
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (1)...(9)
<223> Xaa at location 3 is Any Amino Acid;
Xaa at location 6 is N or I; or any amino acid of at least five
carbon atoms;
Xaa at location 7 is I or hydrophobic or small amino acid;
<220>
<223> Xaa at location 8 R or any aliphatic amino acid of at least five
carbon atoms;
Xaa at location 9 is G or R or any aliphatic amino acid

<400> 3
Arg Glu Xaa Leu Arg Xaa Xaa Xaa Xaa
1 5

<210> 4
<211> 6
<212> PRT
<213> Homo sapiens

<400> 4
Arg Ile Ala Leu Arg Tyr
1 5

<210> 5
<211> 6
<212> PRT
<213> Homo sapiens

<400> 5
Arg Ile Leu Leu Arg Tyr
1 5

<210> 6
<211> 6
<212> PRT
<213> Homo sapiens

<400> 6
Tyr Arg Leu Leu Ile Arg
1 5

<210> 7
<211> 6
<212> PRT
<213> Homo sapiens

<400> 7
Tyr Arg Leu Ala Ile Arg
1 5

<210> 8
<211> 10
<212> PRT
<213> Homo sapiens

<400> 8
Arg Glu Asn Leu Arg Ile Ala Leu Arg Tyr
1 5 10

<210> 9
<211> 10
<212> PRT
<213> Homo sapiens

<400> 9
Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg
1 5 10

<210> 10
<211> 10
<212> PRT
<213> Homo sapiens

<400> 10
Arg Glu Asn Leu Arg Ile Leu Leu Arg Tyr
1 5 10

<210> 11
<211> 10
<212> PRT
<213> Homo sapiens

<400> 11
Tyr Arg Leu Leu Ile Arg Leu Asn Glu Arg
1 5 10

<210> 12
<211> 10
<212> PRT
<213> Homo sapiens

<400> 12
Arg Glu Asp Leu Arg Ile Ala Leu Arg Tyr
1 5 10

<210> 13
<211> 10
<212> PRT
<213> Homo sapiens

<400> 13
Tyr Arg Leu Ala Ile Arg Leu Asp Glu Arg
1 5 10

<210> 14
<211> 10
<212> PRT
<213> Homo sapiens

<400> 14
Arg Glu Asp Leu Arg Ile Leu Leu Arg Tyr
1 5 10

<210> 15
<211> 10
<212> PRT
<213> Homo sapiens

<400> 15
Tyr Arg Leu Leu Ile Arg Leu Asp Glu Arg
1 5 10

<210> 16
<211> 12
<212> PRT
<213> Homo sapiens

<400> 16
Tyr Arg Leu Leu Ile Arg Arg Ile Leu Leu Arg Tyr
1 5 10

<210> 17
<211> 12
<212> PRT
<213> Homo sapiens

<400> 17
Tyr Arg Leu Leu Ile Arg Arg Ile Ala Leu Arg Tyr
1 5 10

<210> 18
<211> 12

<212> PRT

<213> Homo sapiens

<400> 18

Tyr Arg Leu Ala Ile Arg Arg Ile Leu Leu Arg Tyr
1 5 10

<210> 19

<211> 12

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(12)

<223> Xaa = D-Arginine

<400> 19

Tyr Arg Leu Ala Ile Xaa Arg Ile Ala Leu Arg Tyr
1 5 10

<210> 20

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(14)

<223> Xaa = D-Isoleucine

<400> 20

Tyr Arg Leu Ala Ile Arg Ile Xaa Arg Ile Leu Leu Arg Tyr
1 5 10

<210> 21

<211> 15

<212> PRT

<213> Homo sapiens

<400> 21

Ala Tyr Arg Leu Leu Ile Lys Val Ile Arg Ile Val Leu Lys Tyr
1 5 10 15

<210> 22

<211> 17

<212> PRT

<213> Homo sapiens

<400> 22

Ser Tyr Lys Leu Val Ile Lys Ile Asn Asn Ile Arg Ile Val Val Lys
1 5 10 15
Phe

<210> 23

<211> 10

<212> PRT

<213> Homo sapiens

<400> 23

Arg Glu Asp Leu Arg Thr Leu Leu Arg Tyr
1 5 10

<210> 24

<211> 10

<212> PRT

<213> Homo sapiens

<400> 24

Arg Glu Ser Leu Arg Asn Leu Arg Gly Tyr
1 5 10

<210> 25

<211> 10

<212> PRT

<213> Homo sapiens

<400> 25

Arg Glu Asn Leu Arg Thr Ala Leu Arg Tyr
1 5 10

<210> 26

<211> 20

<212> PRT

<213> Homo sapiens

<400> 26

Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Ile
1 5 10 15
Ala Leu Arg Tyr
20

<210> 27

<211> 20

<212> PRT

<213> Homo sapiens

<400> 27

Tyr Gly Arg Leu Asn Arg Leu Ser Glu Arg Arg Glu Ser Leu Arg Asn
1 5 10 15
Leu Arg Gly Tyr
20

<210> 28

<211> 20

<212> PRT

<213> Homo sapiens

<400> 28

Tyr Arg Leu Ala Thr Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Ile
1 5 10 15
Ala Leu Arg Tyr
20

<210> 29

<211> 20

<212> PRT

<213> Homo sapiens

<400> 29

Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Thr
1 5 10 15
Ala Leu Arg Tyr
20

<210> 30

<211> 20

<212> PRT

<213> Homo sapiens

<400> 30

Tyr Arg Leu Ala Thr Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Thr
1 5 10 15
Ala Leu Arg Tyr
20

<210> 31

<211> 20

<212> PRT

<213> Homo sapiens

<400> 31

Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg Tyr Arg Leu Ala Ile Arg
1 5 10 15
Leu Asn Glu Arg
20

<210> 32

<211> 25

<212> PRT

<213> Homo sapiens

<400> 32

Trp Asp Arg Glu Thr Gln Ile Cys Lys Ala Lys Ala Gln Thr Asp Arg
1 5 10 15
Glu Asn Leu Arg Ile Ala Leu Arg Tyr
20 25

<210> 33

<211> 15

<212> PRT

<213> Homo sapiens

<400> 33

Lys Ala Gln Thr Asp Arg Glu Asn Leu Arg Ile Ala Leu Arg Tyr
1 5 10 15

<210> 34

<211> 10

<212> PRT

<213> Homo sapiens

<400> 34

Arg Glu Ser Leu Arg Asn Leu Arg Gly Tyr
1 5 10

<210> 35

<211> 20

<212> PRT

<213> Homo sapiens

<400> 35

Tyr Gly Arg Leu Asn Arg Leu Ser Glu Arg Arg Glu Ser Leu Arg Asn
1 5 10 15
Leu Arg Gly Tyr
20

<210> 36

<211> 12

<212> PRT

<213> Homo sapiens

<400> 36

Tyr Arg Leu Ala Ile Arg Arg Ile Ala Leu Arg Tyr
1 5 10

<210> 37

<211> 10

<212> PRT

<213> Homo sapiens

<400> 37

Arg Val Asp Leu Arg Thr Leu Arg Gly Tyr
1 5 10

<210> 38

<211> 10

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1) ... (10)

<223> Xaa at location 3 is D, S or N;

Xaa at location 6 is I or N;

Xaa at location 7 is A or L;

Xaa at location 8 is R or L;

<220>

<223> Xaa at location 9 is G or R

<400> 38

Arg Glu Xaa Leu Arg Xaa Xaa Xaa Xaa Tyr
1 5 10

<210> 39

<211> 10

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1) ... (10)

<223> Xaa at location 2 is = G or R;
Xaa at location 3 is R or L;
Xaa at location 4 is A or L;
Xaa at location 5 is I or N;

<220>

<223> Xaa at location 8 is D, S or N

<400> 39

Tyr Xaa Xaa Xaa Xaa Arg Leu Xaa Glu Arg
1 5 10

<210> 40

<211> 12

<212> PRT

<213> Homo sapiens

<400> 40

Arg Ile Ala Leu Arg Tyr Tyr Arg Leu Ala Ile Arg
1 5 10

<210> 41

<211> 12

<212> PRT

<213> Homo sapiens

<400> 41

Arg Ile Ala Leu Arg Tyr Arg Ile Leu Leu Arg Tyr
1 5 10

<210> 42

<211> 12

<212> PRT

<213> Homo sapiens

<400> 42

Tyr Arg Leu Leu Ile Arg Tyr Arg Leu Ala Ile Arg
1 5 10